GOVERNMENT OF INDIA
SPACE
LOK SABHA

UNSTARRED QUESTION NO:2661
ANSWERED ON:05.08.2015
Operationalisation of GSLV MK-III
Jaiswal Dr. Sanjay;Karandlaje Km. Shobha

Will the Minister of SPACE be pleased to state:

(a) whether cryogenic engine of higher thrust (20 Tonne) meant for next generation of GSLV viz. GSLV-Mk-III launch vehicle is under advanced stage of development and if so, the details thereof;

(b) the tentative time by which production of this cryogenic engine would be a reality;

(c) whether it is a fact that the indigenously developed cryogenic engine will help India put satellites of upto four tonnes in geostationary orbit;

(d) if so, the details thereof; and

(e) the details of the funds allocated for this purpose in the Twelfth Five Year Plan?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG & PENSIONS AND IN THE PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH):

(a) Yes, Madam. India's first indigenously designed and developed High Thrust cryogenic engine meant for next generation GSLV Mk-III launch vehicle is under advanced stage of development. The endurance hot test of high thrust indigenous cryogenic engine of GSLV Mk III has been successfully conducted for a duration of 800 seconds on 16th July, 2015. Further tests are planned under High Altitude conditions and stage configuration, prior to the realization of flight stage.

(b) The developmental flights of GSLV Mk-III are targeted for completion by 2017 timeframe and the production of the cryogenic engine would commence thereafter.

(c) Yes, Madam.

(d) The indigenous cryogenic engine will be used for powering the Cryogenic stage (C25), the upper stage of GSLV Mk-III launch vehicle of ISRO, which can put satellites of up to 4 tonnes in Geosynchronous Transfer Orbit (GTO).

(e) An amount of Rs.470 Crores has been allocated for the development of GSLV Mk III launch vehicle in the Twelfth Five Year Plan.

****